

YellowScan Vx-15+



The long range & high precision UAV LiDAR solution integrating the miniVUX-2UAV

YellowScan Vx-15+ is the upgraded version of the Vx-15. Ideally suited for the acquisition of small objects on the ground.

Coupled with the DJI M600 it allows over 20min flight time maximizing your survey production.



Technologies inside

applanix | RIEGL



Key differentiators

- ▶ High precision point cloud
- ▶ Better UAV speed
- ▶ Optimized vegetation penetration
- ▶ Optimized for the measurement of snowy and icy terrain
- ▶ Switch from 100 to 200 kHz PRR



UAV Integrations

- ▶ Multirotor drones
- ▶ Helicopter drones

Technical specifications.

Scanner	RIEGL miniVUX-2UAV
Wavelength	905 nm
Precision ^{(1) (3)}	1 cm
Accuracy ^{(2) (3)}	5 cm
Scanner field of view	360°
Shots per second	100k / 200k
Echoes per shot	Up to 5
GNSS-Inertial solution	Applanix APX-15 UAV

Package includes.

✓ Hardware:

- ▶ YellowScan Vx-15+
- ▶ Charger and 2 batteries
- ▶ GNSS antenna and cable
- ▶ 2 USB flash drives
- ▶ Documentation

✓ Services:

- ▶ Boresight calibration certificate
- ▶ 1-year warranty
- ▶ In-person training
- ▶ Worldwide technical and operational support

General characteristics.

Weight	2.6 kg (5.7 lbs) battery included
Autonomy	1.5 hours typ.
Power consumption	25 W
Environmental protection	IP54
Operating temperature	-20 to +40 °C
Size	L 35 x W 11 x H 17 cm

(1) Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target.

(2) Accuracy is the degree of conformity of a measured position to its actual (true) value.

(3) One σ @ 50 m, nadir.

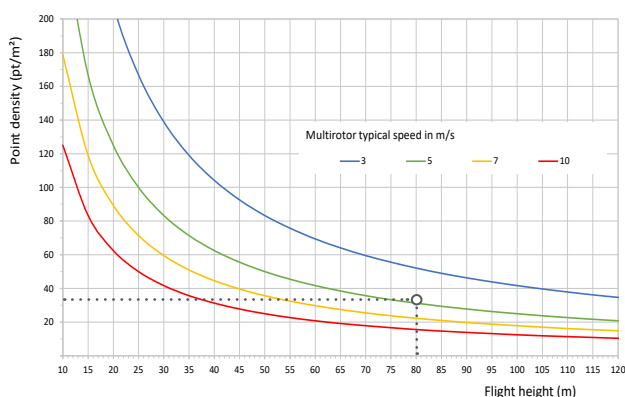
✓ Software:

- ▶ Applanix POSPac UAV, to post-process GNSS and inertial data for highest accuracy
- ▶ YellowScan CloudStation, to generate and visualize your georeferenced point cloud

⊕ Optional:

- ▶ Mounting bracket with single or dual Sony α 6000 camera for DJI M600
- ▶ YellowScan LiveStation, the real-time in-flight LiDAR monitoring kit (software + 2 radio-modems)
- ▶ Warranty and technical support extensions

Typical mission parameters.



FLIGHT SPEED
5 m/s



ALTITUDE
80 m



SWATH
380 m

